

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

SOON-YOUNG EOM

Application No.:

Filed:

For: **broadband phase shifter using coupled  
lines and parallel open/short stubs**

Art Group:

Examiner:

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In accordance with the duty of disclosure, enclosed is a copy of IDS Citation Form PTO/SB/08 or PTO-1449, together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). This IDS and IDS Citation Form are being submitted concurrently with the . It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Date: 4/1/09

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Eric S. Hyman, Reg. No. 30,139

12400 Wilshire Boulevard, 7th Floor  
Los Angeles, CA 90025  
Telephone: (310) 207-3800

Substitute for form 1449A/PTO				Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	
Sheet	1	of	2	Filing Date	
				First Named Inventor	Soon-Young Eom
				Art Unit	
				Examiner Name	
				Attorney Docket Number	51876P603

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

**(use as many sheets as necessary)**

Sheet

1

1

2

**Complete if Known**

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**Application Number**

**Filing Date**

First Named Inventor Soon-Young Eom

## Art Unit

**Examiner Name**

Attorney Docket Number 51876P603

**U.S. PATENT DOCUMENTS**

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

<p>Substitute for form 1449A/PTO</p> <h1 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h1> <p><i>(use as many sheets as necessary)</i></p>				<i>Complete if Known</i>	
Sheet	2	of	2	Application Number	
				Filing Date	
				First Named Inventor	Soon-Young Eom
				Art Unit	
				Examiner Name	
				Attorney Docket Number	51876P603

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Signature	Date Considered
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Applicant's unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wir) 08/11/2003.  
Send To: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

# **Information Disclosure Statement**

New U.S. Patent Application for  
**BROADBAND PHASE SHIFTER USING COUPLED LINES AND  
PARALLEL OPEN/SHORT STUBS**  
Our Ref. No.: P03EB022/US/jy

Reference No.:

- (1) A 4.5 to 18 GHz Phase Shifter  
*(1985 IEEE MTT-S Digest, Pages 601-604)*
- (2) Novel Schiffman Phase Shifters  
*(IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, VOL. 41, NO. 1,  
JANUARY 1993, PAGES 9-14)*
- (3) US Patent No. 4,612,520
- (4) Try  $\lambda/8$  Stubs For Fast Fixed Phase Shifts  
*(Microwaves, December 18, 1979, Pages 67-68)*